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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/806,906

03/23/2004

Jonathan J. Langberg

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EDWARDS LIFESCIENCES CORPORATION  
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EXAMINER

SCHILLINGER, ANN M

ART UNIT

PAPER NUMBER

3738

MAIL DATE

DELIVERY MODE

05/07/2007

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

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**Office Action Summary**

Application No.

10/806,906

Applicant(s)

LANGBERG ET AL.

Examiner

Ann Schillinger

Art Unit

3738

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --****Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 09 February 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-37 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-37 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 23 March 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)            | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | Paper No(s)/Mail Date. _____                                      |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>8/4/04, 12/4/06</u>   | 6) <input type="checkbox"/> Other: _____                          |

## **DETAILED ACTION**

### ***Terminal Disclaimer***

The terminal disclaimer filed on 2/9/2007 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of US Pat. No. 6709456 has been reviewed and is accepted. The terminal disclaimer has been recorded.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-7, 12, 13, 20-25, 30, and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Solem et al. (US Pat. No. 6210432) in view of Oz et al. (US Pat. No. 6269819). For claim 1, Solem et al. discloses advancing, manipulating, and adjusting the prosthesis in col. 2, lines 9-35. Solem et al. does not disclose monitoring hemodynamic function before the adjustment. Oz et al. teaches this in col. 8, lines 1-18 and col. 9, lines 33-43 for the purpose of allowing the surgeon to control bleeding. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made, to monitor the hemodynamic function in order to allow the surgeon to control bleeding.

For claim 19, Solem et al. discloses advancing, manipulating, and adjusting the prosthesis in col. 2, lines 9-56. Solem et al. does not disclose monitoring the degree of regurgitation in the valve before the adjustment. Oz et al. teaches this in col. 8, lines 1-18 and col. 9, lines 33-43 for the purpose of allowing the surgeon to control bleeding. Therefore, it would have been obvious

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to one of ordinary skill in the art at the time the invention was made, to monitor the degree of regurgitation in the valve in order to allow the surgeon to control bleeding.

Solem et al. discloses the limitations of claims 2 and 21 in col. 4, lines 6-7.

Oz et al. discloses the limitations of claims 3 and 22 in col. 2, lines 33-46.

Solem et al. discloses the limitations of claims 4 and 23 in Figure 12 and col. 4, lines 62-65.

Solem et al. discloses the limitations of claim 5 in col. 2, lines 46-47 and in col. 5, line 12.

Solem et al. discloses the limitations of claims 6 and 24 in col. 5, lines 1-4.

Solem et al. discloses the limitations of claims 7 and 25 in col. 4, lines 56 through col. 5, line 4.

Oz et al. discloses the limitations of claims 12 and 30 in col. 10, lines 31-67.

Oz et al. discloses the limitations of claims 13 and 31 in col. 9, lines 63-67.

Solem et al. discloses the limitations of claim 20 in col. 4, lines 56-67.

Claims 8-11 and 26-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Solem et al. in view of Oz et al. in further view of Wright (US Pat. No. 5522884). Solem et al. and Oz et al. disclose the invention substantially as claimed, but they do not disclose the specific locking means claimed by the Applicant. Wright teaches these means in col. 2, line 63 through col. 3, line 53 for the purpose of affixing the necessary parts of the prosthesis in their appropriate positions. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made, to use the locking means in order to affix the necessary parts of the prosthesis in their appropriate positions.

Claims 14 and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Solem et al. in view of Oz et al. in further view of Fowler, Jr. et al. (US Pat. No. 5086776). Solem et al. and Oz et al. disclose the invention substantially as claimed, but they do not disclose using surface echo cardiography. Fowler, Jr. et al. teaches using surface echo cardiography in col. 1, lines 20-21 to utilize its noninvasive properties. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made, to use surface echo cardiography in order to utilize its noninvasive properties.

Claims 15 and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Solem et al. in view of Oz et al. in further view of Killman (US Pat. No. 5846198). Solem et al. and Oz et al. disclose the invention substantially as claimed, but they do not disclose using intracardiac echo cardiography. Killman teaches using intracardiac echo cardiography in col. 2, line 55 through col. 3, line 2 for the purpose of improving imaging of the procedure. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made, to use intracardiac echo cardiography in order to improve imaging of the procedure.

Claims 16 and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Solem et al. in view of Oz et al. in further view of Mehta (US Pat. No. 5476453). Solem et al. and Oz et al. disclose the invention substantially as claimed, but they do not disclose using fluoroscopy with radiocontrast media. Mehta teaches using fluoroscopy with radiocontrast media in col. 1, lines 34-67 for the purpose of visually guiding the procedure. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made, to use fluoroscopy with radiocontrast media in order to visually guiding the procedure.

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Claims 17 and 35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Solem et al. in view of Oz et al. in further view of McIntyre (US Pat. No. 52918953). Solem et al. and Oz et al. disclose the invention substantially as claimed, but they do not disclose using wedge pressure measurements to monitor hemodynamic function. McIntyre teaches using wedge pressure measurements to monitor hemodynamic function in col. 15, line 61 through col. 16, line 15 for the purpose of utilizing its noninvasive properties. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made, to use wedge pressure measurements to monitor hemodynamic function in order to utilize its noninvasive properties.

Claims 18, 36, and 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Solem et al. in view of Oz et al. in further view of Kadhiresan (US Pat. No. 5935081). Solem et al. and Oz et al. disclose the invention substantially as claimed, but they do not disclose using an ongoing drug therapy. Kadhiresan teaches using an ongoing drug therapy in col. 4, lines 8-46 for the purpose of improving the patients' quality of life. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made, to use an ongoing drug therapy in order to improve the patients' quality of life.

### *Response to Arguments*

The Applicant's amendments to claims 2-18 and 20-37 have been received and correct the informalities listed in the previous office action. Therefore the objections to these claims have been withdrawn.

An updated search was conducted and found the references indicated above and in the PTO-892 form which read on the Applicants' limitations.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ann Schillinger whose telephone number is (571) 272-6652. The examiner can normally be reached on Mon. thru Fri. 9 a.m. to 4 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Corrine McDermott can be reached on (571) 272-4754. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Ann Schillinger  
April 27, 2007

*A. Stewart*  
**ALVIN J. STEWART**  
**PRIMARY EXAMINER**